CORRES CONTROL
OUTGOING LTR NO

DOE ORDER 5484.1

94 RF 05309

DIST		
AMARAL M E		
BERMAN H S		
BRANCH D B		
CARNIVAL G J		
COPP R D		
DAVIS J G		
FERRERA D W		
HANNI B J		
HARMAN L K		
HEALY T J		
HEDAHL T		
HILBIG J G		
HUTCHINGS N M		
KELL R E		
KIRBY W A		
KUESTER A W		
MAHAFFEY J W		
MANN H P	X	
MARX G E		
McDONALD M M		
McKENNA F G		
MONTROSE J K		
MORGAN R V		
POTTER G L		
PIZZUTO V M		
RISING T L		
SANDLIN N B		
SETLOCK G H		
STEWART D L		
STIGER S G	X	
SULLIVAN M T		
SWANSON E R		
WILKINSON R B	X	
WILSON J M		
WYANT R R		
Burmeister, M	X	
Busby, W. S.	X	
Hauk, R.	X	
Primrose, A.	X	
Cirillo, R.	X	
Hollowell, L.	X	
CORRES CONTROL	X	X
[redacted]		
PATS/T130G		

CLASSIFICATION

UCNI		
UNCLASSIFIED		
CONFIDENTIAL		
SECRET		

AUTHORIZED CLASSIFIER SIGNATURE

DOCUMENT CLASSIFICATION REVIEW WAIVER PER CLASSIFICATION OFFICE

IN REPLY TO RFP CC NO
21662 RF-94

ACTION ITEM STATUS
☐ PARTIAL/OPEN
X CLOSED

LTR APPROVALS
MCB

ORIG & TYPIST INITIALS
SRC: IA

EG&G ROCKY FLATS

000028388

EG&G ROCKY FLATS INC
ROCKY FLATS PLANT P O BOX 464 GOLDEN COLORADO 80402-0464 • [redacted]

May 11 1994 94 RF 05309

S R Grace
Manager OU 1
Environmental Restoration MSA Projects Division
DOE RFFO

SUBMITTAL OF OPERABLE UNIT 1 WATER TABLE ELEVATION MAPS MCB 155 94

Ref S R Grace ltr (04653) to M C Broussard and A Primrose Quarterly Reports for Operable Unit No 1 Interim Measures/Interim Remedial Action April 25 1994

Enclosed are six color copies each of the July September 1993 (Enclosure 1) and the October December 1993 (Enclosure 2) Operable Unit 1 (OU1) Water Table Elevation Maps These maps were requested in the above referenced letter to be provided by May 11 1994 Future water table maps will be provided in the Quarterly Report for that period

The water level maps were constructed from third and fourth quarter 1993 water level data Water level grids were constructed from these data using a 50 foot grid spacing The existing bedrock grid for OU1 was then subtracted from the respective water level grid to obtain a saturated thickness grid Areas within these saturated thickness grids that were negative were considered to be unsaturated In these areas the calculated water level grid extended below the bedrock surface The saturated thickness grids were then edited to match known areas within OU1 that contain dry wells These edited saturated thickness grids were than added to the bedrock grid to obtain a new water level grid for each quarter This water level grid was the basis for the presented maps

The maps present the configuration of water levels at the OU 1 (881 Hillside) during the third and fourth quarters of 1993 Examination of the maps reveals that there appear to be large areas of the 881 Hillside that are apparently unsaturated These unsaturated areas are present in all of the unconsolidated materials present beneath OU1 even extending to Woman Creek From these maps the French Drain appears to intercept water normally flowing through the subsurface to Woman Creek Other factors that could contribute to the extent of the unsaturated zones are the heterogeneity of the colluvial materials making up the 881 Hillside building footing drains (such as Building 881) and the generally low water levels for this time period (July 1993 to December 1993) It can also be seen that the unsaturated areas do appear to fluctuate during the year Subsequent maps of water levels through the year could give an indication of the effectiveness of the French Drain

ADMIN RECORD

A OU01 0711

If you need further information please feel free to contact J Russ Cirillo of my staff on extension 5876 or digital page 5477

M C Broussard

M C Broussard
Environmental Operations Manager
Environmental Restoration Management
EG&G Rocky Flats Inc

JRC la

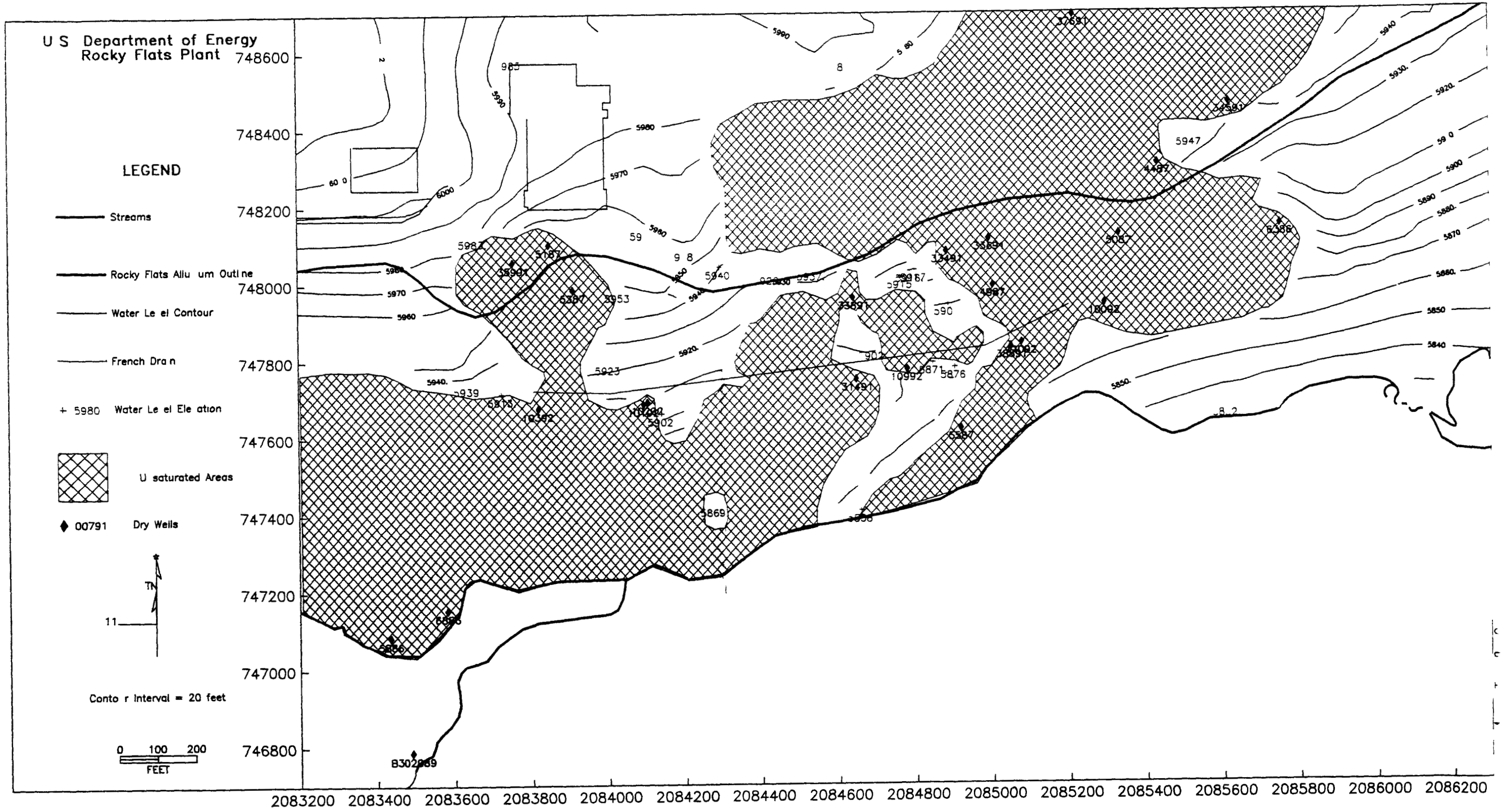
Orig and 1 cc S R Grace

Enclosures
As Stated (2)

cc
R R Lockhart DOE RFFO
T Reeves
J M Roberson
B E Williamson

Enclosure 1
94-RT-05309

Rocky Flats OU1 3rd Quarter 1993 Water Level Map



Rocky Flats OU1 4th Quarter 1993 Water Level Map